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【識別番号】999999999

【氏名又は名称】花王株式会社

【住所又は居所】東京都中央区日本橋茅場町1丁目14番10号|

(72) 【発明者】

【氏名】安藤 賢治

【住所又は居所】栃木県芳賀郡市貝町市塙4594 城 県寮A401

(72) 【発明者】

【氏名】清水 繁行

【住所又は居所】栃木県宇都宮市平松本町793-81

(74) 【代理人】

【諡別番号】99999999

【弁理士】

【氏名又は名称】羽鳥 修

【合議体】

【審判長】杉原 進

【審判官】鈴木 美知子

【審判官】佐藤 雪枝

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【文献】特開 昭62-250201 (JP, A) |

【文献】特開 昭63-159501 (JP, A) |

(57) 【特許請求の範囲】

【請求項1】液透過性の表面シート、液不透過性の裏面シート、これら両シートの間に位置する吸収体、及び該吸収体の長手方向の両側縁から幅方向外方へ延出されたサイドフラップを具備するつかいすておむつにおいて、上記サイドフラップそれぞれの表面に、伸縮自在に形成された襞部を上記吸収体に沿わせてそれぞれ少なくとも2つ設けてあり、少なくとも2つの上記襞部は、股下部

[Applicant Code] 999999999

[Name] KAO CORPORATION (DB 69-053-5703)

[Address] Tokyo Chuo-ku Nihonbashi Kayabacho 1-Cho me 14-10

(72) [Inventor]

[Name] Ando Kenji

[Address] Tochigi Prefecture Haga-gun Ichikai-machi Ichihana 4594 Shiromi Dormitory A401

(72) [Inventor]

[Name] Clean water Shigeyuki

[Address] Tochigi Prefecture Utsunomiya City Hiramats u Honmachi 79 3-81

(74) [Attorney(s) Representing All Applicants]

[Applicant Code] 999999999

[Patent Attorney]

[Name] HATORI OSAMU

[Court]

[Head Trial Examiner] Sugihara Shin

[Trial Examiner] Suzuki Michiko

[Trial Examiner] Sato snow branch

(56) [Citation(s)]

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[Literature] Japan Unexamined Patent Publication Hei 2 - 71521(JPA)

/1321(JP,A)

[Literature] Japan Unexamined Patent Publication Showa 62 - 250201(JP,A)

[Literature] Japan Unexamined Patent Publication Showa 63 - 159501(JP,A)

(57) [Claim(s)]

[Claim 1] Liquid permeable front surface sheet , liquid i mpermeable backing sheet , It is in position between these both sheets absorbent , In using throwing away diaper which possesses side flap which isextended from both side edges of long direction of and said absorbent to thetransverse direction outward direction putting, To above-mentioned side flap respective surface, Each one

において、それぞれ、1枚のシート状の漏れ抵抗部村の幅方向中間部のみを上記吸収体の長手方向に沿って固定して形成されており、鼓漏れ抵抗部村の長手方向両側縁が上記襞部の自由端縁を形成していることを特徴とするつかいすておむつ。|

【請求項2】上記襞部は、何れも長手方向の少なくとも 一部が上記表面シートから離間して形成されている、請 求項(1)記載のつかいすておむつ。

【請求項3】上記襞部は、何れも、自由端縁を折り曲げ て形成された折曲部に内包された弾性部材を具備してい る、請求項(1)記載のつかいすておむつ。

【発明の詳細な説明】〔産業上の利用分野〕

本発明は、フィット性を高めた漏れ防止構造を有する つかいすておむつに関する。

#### 〔従来の技術〕

つかいすておむつの股部に関する防漏機構としては、 従来から種々提案されている。例えば、特公昭52-4026 7号公報、特開昭54-115939号公報、特開昭52-120045 号公報、及び特開昭57-89602号公報には、つかいすておむつの側縁部に沿って、弾性部材を用いて予めギャザーを設け、着用者の股下部分におむつを密着させ、漏れにくくしたつかいすておむつが開示されている。また、特開昭59-157301号公報、特開昭60-199903号公報及び実開昭63-60405号公報には、側縁部に伸長率の異なる弾性部材を複数本配置することにより、着用者の脚周り寸法に合い、且つ動きに追従できるつかいすておむつが開示されている。

また、特開昭62-250201号公報、特公昭63-159501号 公報には、サイドフラップの長手方向に側壁部、あるい は起立する伸縮ギャザーを形成し、これらによって漏れ 防止、フィット性向上させたつかいすておむつが開示さ two providing at least, pleated part which was formed to the extendable and retractable alongside abovementioned absorbent to be, At least, 2 above-mentioned pleated part is formed in crotch part, respectively, locking only transverse direction intermediate section of a leak resistor of sheet of the one layer alongside long direction of above-mentioned absorbent, using throwing away diaper where long direction both side edges of said leak resistor forms the free end edge of above-mentioned pleated part and densely makes feature.

[Claim 2] Using throwing away diaper where above-me ntioned pleated part isformed, in each case long direction part alienating from the above-mentioned front surface sheet at least, states in Claim (1).

[Claim 3] Using throwing away diaper where above-me ntioned pleated part, in each case, bending free end edge, possesses elastic component which intension is done in bent part which was formed, states in Claim (1).

[Description of the Invention] ( Industrial Area of Applic ation )

This invention regards using throwing away diaper whi ch possesses theleak prevention structure which raises fit.

### (Prior Art)

From various it is proposed until recently as arame chanism regarding crotch section of using throwing away diaper. You use in for example Japan Examined Patent Publication Sho 52 - 40267 disclosure and, Japan Unexamined Patent Publication Showa 54 -115939 disclosure, Japan Unexamined Patent Publication Showa 52 - 120045 disclosure, and the Japan Unexamined Patent Publication Showa 57 -89602 disclosure throw away and you provide gather beforehand alongside thelateral edge part of diaper, making use of elastic component, stick diaper to crotch partamount of wearer, to leak using throwing away diaper which makesdifficult is disclosed. In addition, it is agreeable to leg surroundings dimension of wearer in Japan Unexamined Patent Publication Showa 59 -157301 disclosure, the Japan Unexamined Patent Publication Showa 60 - 199903 disclosure and Japan Unexamined Utility Model Publication Showa 63 - 60405 disclosure by multiple arranging elastic component where theelongation differs to lateral edge part, using throwing away diaper which it canfollow to and movement is disclosed.

In addition, in Japan Unexamined Patent Publication Sh owa 62 - 250201 disclosure and Japan Examined Patent Publication Sho 63 - 159501 disclosure, side wall, or extension and retraction gather whichstands up is

れている。

# [発明が解決しようとする課題]

しかし、上記のような防漏機構において、特開昭52-4076万公然、特開昭54-115939号公報、特開昭52-120045号公報及び特開昭57-89602号公報にそれぞれ記載された股下部分におけるサイドフラップにギャザーを設けたつかいすておむつは、前記サイドフラップに介在する弾性部材によってサイドフラップの剛性が高くなり、脚周りに対する追従性が低下する。その結果、意図したフィット性が得られず、着用者の股下部分とおむつとの間に隙間を形成する虞れがあり、漏れを充分に防止することができない。特に、着用者が活発な高月齢児である場合などには、着用時に吸収体がヨレたりおむつがずれ落ちたりすることが頻繁に起こる虞れがあり、漏れに至る危険性が更に高くなる。

更に、弾性部材を表面シートと裏面シートの間に介在させてギャザーを形成させたものは、その殆どが弾性部材または裏面シートもしくは表面シートに接着手段を施すと共におむつの長手方向の両端部には製造上、止むを得ず形成される非接合部分(剥離部)があり、着用時にこの剥離部において形成される隙間を介して腹側または背側からの漏れを引き起こす原因になっていた。

また、特開昭59-157301号公報、特開昭60-199903号公報及び実開昭63-60405号公報にそれぞれ記載されたサイドフラップにおいて起立したギャザーを1本づつ設けたおむつは、ギャザーを起立させるために弾性部材の伸長率を高く設定せざるを得ず、そのようにするとギャザー縁部が肌に線状に接するため、股下部分をギャザーで圧迫し、股下部分を赤くしたり、傷つけたりすることがあり、着用上必ずしも満足できるものではなく、また、側壁部を有するものについても同様のことが言える。

従って、本発明の目的は、股下部分に対して柔軟にフィットして隙間を生じさせることなく確実に漏れを防止することができると共に腰部における漏れを防止することができるつかいすておむつを提供することにある。

formed in longitudinal direction of side flap, leak prevention and fitthe using throwing away diaper which improves is disclosed with these.

( Problems That Invention Seeks to Solve )

But, as for using throwing away diaper which provides gather in he side flap in crotch part amount which is respectively stated in the Japan Unexamined Patent Publication Showa 52 - 40267 disclosure, Japan Unexamined Patent Publication Showa 54 - 115939 disclosure, Japan Unexamined Patent Publication Showa 52 - 120045 disclosure and Japan Unexamined Patent Publication Showa 57 - 89602 disclosure as description above in theant mechanism, stiffness of side flap becomes high with elastic component which lies between in aforementioned side flap, conforming behavior for the leg surroundings decreases. As a result, there is a concern where fit which is intended is notacquired, forms gap in crotch part amount of wearer and between thediaper, a leak it is prevented is not possible densely in satisfactory. Especially, when wearer is active toddler etc, absorbent kink beingenough diaper slips in worn time and falls to be a concern which happensdensely in frequent, risk which reaches to a leak furthermore becomes high.

Furthermore, elastic component lying between between front surface sheet and backing sheet, formed thegather as for those which, As most administers bonding means to elastic component or backing sheet or front surface sheet, in regard to production, there was a unjoined portion (stripping portion) which is formed inevitably in both ends of long direction of diaper, through gap which isformed to worn time in this stripping portion it had become cause which causesa leak from stomach side or backside.

In addition, Japan Unexamined Patent Publication Sho wa 59 - 157301 disclosure, At a time 1 provides gather which stands up in side flapwhich is stated respectively in Japan Unexamined Patent Publication Showa 60 - 199903 disclosure and Japan Unexamined Utility Model Publication Showa 63 - 60405 disclosure as for thediaper which, If gather it does not set elongation of elastic component highly in order tostand up, it to become, When it makes that way, because gather edge touches to linear in theskin, crotch part amount pressure is done with gather, it is notsomething where it does not make red, damages crotch part amount to be, inregard to wearing always can be satisfied densely, in addition, youcan call similar saw concerning those which possess side wall.

Therefore, objective of this invention, fit doing in softe ningvis-a-vis crotch part amount, as it can prevent a leak securely, withoutcausing gap it is to offer using throwing away diaper whichcan prevent a leak in waist

#### [課題を解決するための手段]

本発明者らは、従来のつかいすておむつ、特に股下部分の防漏機構について鋭意研究した結果、フラップに特定形態の漏れ抵抗部材を設けることによって上記目的を達成し得ることを知見した。

本発明は、上記知見に基づいてなされたつかいすておむつ、即ち、液透過性の表面シート、液不透過性の表面シート、これら両シートの間に位置する吸収体、及びな吸収体の長手方向の両側縁から幅方向外方へ延出されて、出記サイドフラップそれぞれの表面に、伸縮自在において、上記サイドフラップそれぞれの表面に、伸縮自在に形成された繋部を上記吸収体に沿わせてそれぞれ少なくとも2つの上記繋部は、股下部はいて、それぞれ、1枚のシート状の上記漏れ抵抗部がの幅方向中間部のみを上記吸収体の長手方向に沿っに固定して形成されており、該漏れ抵抗部村の長手方向に分向とするつかいすておむつを提供するものである。

### 〔作用〕|

本発明のつかいすておむつによれば、着用時にサイドフラップの伸縮自在な繋部が、高月齢児の活発な動作に対して追随する吸収体のヨレに影響されることなく、着用者の股下部分に柔軟にフィットして、股下部分の内部にポケット構造を形成し、このポケット構造を維持した状態で着用者にフィットして排泄物をポケット構造内に封止してその漏れを防止することができる。

また、本発明のつかいすておむつによれば、襞部が何れも複数の弾性部材を具備していることから、着用時に 着用者の股下部分に柔軟にフィットして、股下部分を赤 くしたり傷つけたりすることがない。

### (実施例)

以下、第1図〜第7図に示す実施例に基づいて本発明を説明する。尚、各図中、第1図は本発明のつかいすておむつの一実施例の表面の一部を破断して示す平面図、第2図は第1図に示すつかいすておむつが表面側に湾曲した状態を示す斜視図、第3図は第2図のIIIーIII線断面図、第4図は第2図のIVーIV線断面図、第5図、第6

part.

(motor in order to solve problem)

conventional you use these inventors and, throw away and result of diligent research, you provide a leak resistor of specific form in flap concerningthe an漏 mechanism of diaper and especially crotch part amount, it canachieve above-mentioned object, by densely you informed densely.

As for this invention, It is possible on basis of above-m entioned knowledge usingthrowing away diaper which, Namely, liquid permeable front surface sheet, liquid impermeable backing sheet, It is in position between these both sheets absorbent, In using throwing away diaper which possesses side flap which is extended from both side edges of long direction of and said absorbent to the transverse direction outward direction putting. To above-mentioned side flap respective surface, Each one two providing at least, pleated part which was formed tothe extendable and retractable alongside abovementioned absorbent to be, At least, 2 above-mentioned pleated part is formed in crotch part, respectively, locking only transverse direction intermediate section of above-mentioned leak resistorof sheet of one layer alongside long direction of above-mentioned absorbent, it is something which offers using throwing away diaperwhere long direction both side edges of said leak resistor forms free end edge of theabove-mentioned pleated part and densely makes feature.

### (Action)

In using throwing away diaper of this invention we dep end, In worn time extendable and retractable pleated part of side flap, in crotch part amount of wearer thefit doing in softening without having an influence on kink ofthe absorbent which follows vis-a-vis active operation of toddler, itcan form pocket structure in interior of crotch part amount, with state whichmaintains this pocket structure fit doing in wearer, sealing wasteinside pocket structure, it can prevent leak.

In addition, according to using throwing away diaper of this invention, the pleated part which from fact that elastic component of plural ispossessed, in worn time in crotch part amount of wearer fit doingin softening, crotch part amount it does not make red and/or damages densely is not.

## (Working Example)

This invention is explained below, on basis of Working Example which is shownin Figure 1 to Figure 7. Furthermore each in the diagram, As for Figure 1 breaking portion of surface of one Working Example of theusing throwing away diaper of this invention, it shows top view, Figure 2 shows state where using

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図はそれぞれ本発明のつかいすておむつの他の実施例を示す第3図相当図、第7図は本発明のつかいすておむつの更に他の実施例を示す第3図とは反対側の位置における断面図である。

本実施例のつかいすておむつ1は、第1図に示す如く、着用者の肌に接触する側を形成する液透過性の表面シート2と、該表面シート2に対応する液不透過性の表面シート3と上記表面シート2との間に位置して排泄物を吸収する吸収体4と、該吸収体4の長手方向の両側縁から幅方向外方へ延出された一対のサイドフラップ5、5とを具備し、該サイドフラップ5、5とを具備し、該サイドフラップ5、5は上記表面シート2及び裏面シート3とが重合して一体に形成されている。尚、本実施例では、上記サイドフラップ5、5の外側縁の略中央に股下部分の形状に沿った凹欠部5A、5Aが形成されている。

また、サイドフラップ5の表面に、伸縮自在に形成さ れた襞部6A,6Aを上記吸収体4に沿わせて2つ設けてあり 、2つの襞部6A, 6Aは、股下部において、それぞれ、1枚 のシート状の漏れ抵抗部村6の幅方向中間部のみを吸収 体4の長手方向に沿って固定して形成されており、漏れ 抵抗部材6の長手方向両側縁が襞部6Aの自由端縁を形成 している。即ち、上記サイドフラップ5の表面上には伸 縮自在に形成された一対の襞部6A、6Aを有する漏れ抵抗 部材6が上記吸収体4の長手方向の側縁に沿って設けら れ、しかも該漏れ抵抗部村6は上記サイドフラップ5か ら上記吸収体4の内側に渡って被うように形成されてい る。上記襞部6Aは、少なくとも糸状の弾性部材7を1本 内包し、長手方向に伸縮自在に構成されている。即ち、 本つかいすておむつ1は、第1図に示す如く展開した状 態で、上記弾性部材7が張設された状態にあって本つか いすておむつ1を常に長手方向内で内側へ引っ張ってお り、本つかいすておむつ1の使用時には、第2図に示す 如く、本つかいすておむつ 1 が表面側に湾曲すると共に 上記各漏れ抵抗部村6、6のそれぞれの繋部6A、6Aが立 ち上がり、これら各漏れ抵抗部村6、6の襞部6A、6Aで 股下部にポケット構造を形成するように構成され、しか も各漏れ抵抗部材6、6の内側の襞部6A、6Aが第3図に 示す如く上記吸収体4の内側へ位置するように構成され ている。|

throwing away diaper which isshown in Figure 1 curves in front side oblique view, As for Figure 3 line III-III sectional view of Figure 2, as for Figure 4 line IV-IV sectional view ofthe Figure 2, as for Figure 5 and Figure 6 as for Figure 3 corresponding diagram and the Figure 7 which show other Working Example of using throwing away diaper ofthe respective this invention Figure 3 which shows furthermore other Working Exampleof using throwing away diaper of this invention it is a sectional view in thelocation of opposing side.

As for using throwing away diaper 1 of this working e xample, It shows in Figure 1 as though, There is a position between liquid impermeable backing sheet 3 and said backing sheet 3 and theabove-mentioned front surface sheet 2 which correspond to liquid permeable front surface sheet 2 and said front surface sheet 2which form side which contacts skin of wearer it possesses the side flap 5, 5 of pair which is extended from both side edges of long direction of absorbent 4 and said absorbent 4 which absorb waste to lateral direction outward direction, the said side flap 5, 5 is formed abovementioned front surface sheet 2 and backing sheet 3 polymerizing as one unit. Furthermore with this working example, notched part 5A and 5A whichparallel to geometry of crotch part amount in approximately center of theoutside edge of above-mentioned side flap 5, 5 are formed.

In addition, in surface of side flap 5, two it is provided thepleated part 6A,6A which was formed to extendable and retractable alongside above-mentioned absorbent 4, 2 pleated part 6A.6A is formed in crotch part. respectively, locking onlythe transverse direction intermediate section of a leak resistor 6 of sheet of one layer alongside thelongitudinal direction of absorbent 4, longitudinal direction both side edges of a leak resistor 6 forms free end edge of the pleated part 6A. Namely, pleated part 6A of pair which was formed to extendable and retractable, a leakresistor 6 which possesses 6A it is provided on surface of the above-mentioned side flap 5 alongside side edge of longitudinal direction of theabovementioned absorbent 4, furthermore said leak resistor 6 is formed inorder to cover from above-mentioned side flap 5 over inside of the above-mentioned absorbent 4. elastic component 7 of strand 1 intension it does abovementioned pleated part 6A, atleast, in longitudinal direction configuration is done in extendable and retractable. Namely, Book you use and throw away as for diaper 1, As though it shows in Figure 1, is developed with state which, There being a state where above-mentioned elastic component 7 is installed, thebook you use and throw away always inside longitudinal direction pulling diaper 1to inside, to be, Book you use and throw away when using diaper 1, It shows in Figure 2 as though, As book you use and throw away and diaper 1 curves in front side, description above each it leaks, respective pleated part 6A of resistor

尚、本つかいすでおむつ1の背側のサイドフラップ5 、5にはテープファスナーと、3が取り付けられている

次に、上記漏れ抵抗部材6を第3図、第4図に基づいて更に詳述する。

前記吸収体4は、裏面シート3上に固定され、該吸収 体4の全体が前記表面シート2によって被覆接着され、 上記表面シート2に対して該吸収体4の長手方向の側縁 に沿わせた上記漏れ抵抗部材6の幅方向中間部のみを固 定して、一定の幅の固定部9を長手方向に形成すると共 に該漏れ抵抗部材6の長手方向の側縁で自由端縁を形成 するように接着されている。そして、上記弾性部材フは 、上記自由端縁を上記表面シート2側へ折り曲げて形成 された折曲部に内包され上記襞部6Aを構成している。尚 、上記漏れ抵抗部材6は、上記表面シート2に対してホ ットメルト等の接着剤による接着、あるいは超音波によ る熱溶着等によって固定されるが、着用時の風合を良く するためには超音波の熱溶着による固定が好ましい。ま た、1枚のシート状の上記漏れ抵抗部材6は、実質上1 枚のシート状であれば良く、例えば、2枚のシート状物 が適宜一体的に接合されて1枚のシート状物に形成され ているものでも良い。

また、上記弾性部材7は、第4図に示す如く、上記漏れ抵抗部材6の長手方向の両端近傍までしか達しておらず、弾性部材7を内包しないこれら両端部近傍では上記漏れ抵抗部材6の長手方向の両側端縁が上述の如く折曲形成されて、その内側で複数の固定部9を形成するように上記表面シート2に固定されている。即ち、襞部6A、6Aは股下部分の領域を中心に形成されるようになっている。

また、上記漏れ抵抗部村6の固定部9は、サイドフラップ5内であれば、どこに設置してもよいが、効果的なポケット構造の設定及び装着性の点から、上記吸収体4の長手方向側縁から外方に50mm以内にあることが好ましく、30mm以内にあることがより好ましい。また、上記固

6, 6, 6A leaks and is done rise, these each in order pleated part 6Aof resistor 6, 6, with 6A to form pocket structure in crotch part, the configuration, furthermore as though each it leaks and pleated part 6A of inside of resistor 6, 6, 6A shows in Figure 3, in order location to doto inside of above-mentioned absorbent 4, configuration it is done.

Furthermore book you use and throw away and tape fastener 8 and the8 are installed in side flap 5, 5 of backside of diaper 1.

Next, on basis of Figure 3 and Figure 4 furthermore y ou detailthe above-mentioned leak resistor 6.

As for aforementioned absorbent 4, As it is locked on backing sheet 3, entirety of said absorbent 4 is theaforementioned front surface sheet 2 and sheath it glues, locking only transverse direction intermediate section of the above-mentioned leak resistor 6 which it makes side edge of long directionof said absorbent 4 parallel vis-a-vis above-mentioned front surface sheet 2, it formsthe fixture 9 of fixed width in long direction, in order to form free endedge with side edge of long direction of said leak resistor 6, it has glued. And, abovementioned elastic component 7, bending abovementioned free end edgeto above-mentioned front surface sheet 2 side, intension is done in bent part whichwas formed and configuration does abovementioned pleated part 6A. Furthermore it glues abovementioned leak resistor 6, withthe hot melt or other adhesive vis-a-vis above-mentioned front surface sheet 2, or with ultrasound islocked with thermal weld etc. but in order texture of worn time toimprove, fixing is desirable with thermal weld of ultrasound. In addition, if above-mentioned leak resistor 6 of sheet of the one layer is sheet of one layer with respect to substance, it isgood, for example 2 sheet being connected by as needed integral, it is goodbeing something which is formed to sheet of one layer.

In addition, as though above-mentioned elastic component 7, as though it shows in Figure 4, we have reached to only vicinity of both ends of longitudinal direction of theabove-mentioned leak resistor 6, with these both ends vicinity which elastic component 7 intensionare not done both edges edge of longitudinal direction of above-mentioned leakresistor 6 is description above, it bends and is formed, in order toform fixture 9 of plural with inside, it is locked to theabove-mentioned front surface sheet 2. Namely, pleated part 6A and 6A region of crotch part amount are designed in such a way that it is formed to center.

In addition, if it is inside side flap 5, it is possible to install thefixture 9 of above-mentioned leak resistor 6, wherever, but from point of setting and mounting property of effective pocket structure, from longitudinal direction side edge of the above-mentioned absorbent 4 in

定部9の幅は3~20mmに形成されていることが好ましい。上記襞部6A、6Aは、それぞれの幅方向の長さが10~10 0mmが好ましく、より好ましくは内側の襞部6Aが35mm程度、外側の襞部6Aが15mm程度である。

而して、上記表面シート2は、繊紅不懸流、多孔性プラスチックフィルム等によって、上記裏面シート3は、透湿性のプラスチックフィルム等によって、上記漏れ抵抗部材6は、上記表面シート2と同様に繊維不織布、多孔性プラスチックフィルム等によって、上記吸収体5は、解繊パルプを主材として吸収性ポリマーを併用したもの等によって、また、上記弾性部材7は、帯状または糸状のポリウレタンフィルムまたは天然ゴム等の伸縮したもの弾性部材によってそれぞれ形成されていることが好ましい。また、上記表面シート2は親水性の材料で形成されていることが好ましい。

本実施例のつかいすておむつ 1 は上記の如く構成され ているため、これを着用する際、つかいすておむつ1は 、襞部6A、6Aの弾性部材7、7によって表面シート2内 で引張られて湾曲すると共に襞部6A、6Aが立ち上がって 立体ギャザーを形成する(第1図参照)。かかる状態で テープファスナー8、8によって腰部に止着して本つか いすておむつ1を着用すると、サイドフラップ5、5の 凹欠部5A、5Aが股下部分を囲むと共に、襞部6A、6Aが股 下部分に柔軟にフィットして股下部分でポケット構造を 形成して内部を外部からシールする。この際、襞部6A、 6Aが着用者の股下部分を柔軟に平面でもってシールする ため、股下部分を赤くしたり傷つけたりすることがない 。また、本つかいすておむつ1は、従来の如く弾性部材 7を表面シート2と裏面シート3との間に介装したもの でないため、サイドフラップ5、5を形成する表面シー ト2と裏面シート3とは密着して隙間がなく、腰部から の漏れを確実に防止することができる。

また、本つかいすておむつ1は、消費者に対しては、 漏れやフィット性の基本的な性能を有する他、視覚的に も優れたものである。 outward direction it is within 50 mm, it isdesirable densely, it is within 30 mm, it is more desirabledensely. In addition, width of above-mentioned fixture 9 is formed to the3 to 20 mm, it is desirable densely. Above-mentioned pleated part 6A, as for 6A, length of therespective lateral direction 10 to 100 mm is desirable, pleated part 6A of more preferably inside thepleated part 6A of 35 nm extent and outside is 15 mm extent.

Therefore, As for above-mentioned front surface sheet 2, fiber nonwoven fabric, porosity plastic film, as for above-mentioned backing sheet 3, as for abovementionedleak resistor 6 with such as plastic film of moisture permeability, in same way as theabovementioned front surface sheet 2, as for above-mentioned absorbent 5 with such as fiber nonwoven fabric and porosity plastic film, with those etc which jointly use absorbancy polymer with fibrillated pulpas primary material, in addition, above-mentioned elastic component 7 with such as strip or polyurethane film of strand or is respectively formed with thenatural rubber or other extendable and retractable elastic component, it is desirable densely. In addition, above-mentioned front surface sheet 2 is formed with hydrophilic materialdensely to be desirable, above-mentioned leak resistor 6 is formed withthe material of water repellency, it is desirable densely.

As for using throwing away diaper 1 of this working e xample as though it is adescription above, because configuration it is done, when wearing this you use and throw away and diaper 1, elastic component 7 of pleated part 6A and the6A, with 7 being pulled inside front surface sheet 2, as it curves, thepleated part 6A and 6A standing up, forms steric gather (Figure 1 reference). With this state with tape fastener 8 and 8 afixing doing in thewaist part, when book you use and throw away and wear diaper 1, as thenotched part 5A of side flap 5, 5, 5A surrounds crotch part amount, pleated part 6A and the 6A in crotch part amount fit doing in softening, forming the pocket structure at crotch part amount, seal it does inside from outside. In this case, pleated part 6A and 6A in softening having crotch partamount of wearer with flat surface, in order seal to do, crotch partamount it does not make red and/or damages densely is not. In addition, book you use and throw away and diaper 1, as thoughthe conventional because elastic component 7 a front surface sheet 2 and something which is introduced between backing sheet 3 it is not, sticking with front surface sheet 2 and backing sheet 3 which form side flap 5, 5, is not a gap, can prevent a leak from the waist part securely.

In addition, book you use and throw away and diaper I besides itpossesses fundamental performance of a leak and fit vis-a-vis consumer, issomething which is superior even in visual.

また、本つかいすておむつに1によれば、立体ギャザーを構成する襞部6A、6Aをつかいすておむつ1表面の所定位置に接着するだけで固定することができるため、これを生産する際には、工程的にも簡素であり、高速生産することができ、生産効率の向上を図ることができる。

また、第5図は本発明の他の実施例を示すもので、本 実施例のつかいすておむつ1は、同図に示す如く、製部6A、6Aが糸状の弾性部材7を2本内包して所定幅の平面 状部として形成されている以外は全て上記実施例と同様に構成されている。そして、上記製部6A、6Aは、本のの製 に構成されている。をして、上記製部6A、内側の製部6Aが吸収体4を被覆する表面シート2の上方に位置し 且つ該吸収体4の長手方向の側縁より内側に位置するように構成されている。また、上記内側の製部6Aの弾性部材7、7のうち固定部9に近い側の弾性部材7の伸長率が遠い側の関部6Aの弾性部材7、7についても固定部9に近い側を遠い側よりも伸長率が大きく設定されて構成されている。

また、上記駿部6Aの平面状部は5~20mmに形成されていることが好ましく、より好ましくは10mm程度である。尚、上記弾性部材7が1本の帯状のもので形成されている場合には、自由状態においてその幅が上記幅の平面状部を成す寸法に形成されておればよい。従って、本実施例のつかいすておむつ1によれば、駿部6A、6Aが平面状部で股下部分にフィットして排泄物の漏れをより確実に防止することができる。

また、第6図は本発明の更に他の実施例を示すもので、本実施例のつかいすておむつ1は、同図に示す如く、第1図~第4図に示す第1の実施例のつかいすておむる。は、1の漏れ抵抗部村6に更に別の漏れ抵抗部村6/が該するように固定部9/を形成するように構成されている。そして、別の漏れ抵抗部村6/は、第6図に行って、別の漏れ抵抗部村6/は、第6図にそりなく、漏れ抵抗部村6よりも幅が狭く形成され、その理性部村7/が他方の弾性部村7より伸長率が大き、他方の繋部6Aよりもより大きく立ち上がるように構成されている。従って、本実施例のつかいすておむつ1によれず、吸収体4の内側に向けて傾斜する2つの立体ギャザー

In addition, book you use and throw away and according to thel, you use pleated part 6A and 6A which steric gather configuration aredone in diaper and throw away and because it just glues to the specified position of diaper I surface it can lock, when producing this, being simple evenin processwise, high speed production you do, it is possible densely, assures the improvement of productivity it is possible densely.

In addition, as for Figure 5 being something which sho ws otherWorking Example of this invention, as for using throwing away diaper 1 of this working example, as though it shows in same Figure, pleated part 6A and 6A 2 intensiondoing elastic component 7 of strand, other than being formed, as flat surfacesection of specified width configuration it is done in same way as allabovementioned Working Example. And, above-mentioned pleated part 6A, book you use 6A and, throwaway and in order with state where diaper 1 curves for pleated part 6Aof rise and inside to be a position of upward direction of front surface sheet 2which absorbent 4 sheath is done and from side edge of longitudinal direction of the said absorbent 4 to be a position of inside configuration you are done. In addition, it sets largely elastic component 7 of pleated part 6A of theabovementioned inside, in comparison with elongation of elastic component theside where elongation of elastic component 7 side which is close to theinside fixture 9 of 7 is distant, elongation being largely set theside which is close to fixture 9 elastic component 7 of pleated part 6A of and above-mentioned outside, concerning 7 in comparison withdistant side, configuration it is done.

In addition, flat surface section of above-mentioned ple ated part 6A is formed to 5 to 20 mm, it is desirable densely, it is a more preferably 10 mm extent. Furthermore when above-mentioned elastic component 7 is formed withthose of strip of 1, if we should have been formed to the dimension where width forms flat surface section of above-mentioned width in free state. Therefore, according to using throwing away diaper 1 of this working example, the pleated part 6A and 6A being flat surface section, fit doing incrotch part amount, it can prevent a leak of waste more securely.

In addition, as for Figure 6 being something which sho ws furthermorethe other Working Example of this invention, as for using throwing away diaper 1 of the this working example, as though it shows in same Figure, in order in a leak resistor 6 of using throwing away diaper 1 of first Working Example which is shown in the Figure 1 to Figure 4 furthermore for another leak resistor 6' to form fixture 9' on thesurface of said leaking resistor 6, other than having glued, configurationit is done in same way as all first Working Example. width is narrowly formed and, another leak resistor 6' leaks and, asthough it shows in Figure 6, as though in comparison with resistor 6 , the elastic

が形成されて、これらが着用者の股下部分、鼠蹊部から 大腿部にかけてより確実にフィットする。

また、第7図は本発明の更に他の実施例を示す図で、本実施例のつかいすておむつ1は、同図に示す如く、サイドフラップ6の内側が表面シート2で形成され、その外側が漏れ抵抗部材6によって形成されており、肢漏れ抵抗部材6の表面上に、第6図に示すものと同様に別の漏れ抵抗部材6′が設けられたものである。従って、本実施例によれば、吸収体4の内側に向けて傾斜する2つの立体ギャザーが形成されて第3の実施例と同様の作用効果を期することができる。

尚、上記各実施例のつかいすておむつ1においては、 それぞれの吸収体4が長方形を呈するものについてのみ 説明したが、これらの吸収体4は、それぞれのサイドフ ラップ5、5の凹欠部5A、5Aに従って湾曲形成されたも のであれば、より一層フィット性を高めることができる

また、上記各実施例のつかいすておむつ1において、 それぞれの吸収体4の長手方向の両端部をそれぞれの裏 面シート3によって、あるいは別の防漏シートによって 被覆し、更に腰部に弾性部材を設けることにより、腰部 における漏れをより効果的に防止することができる。

#### [発明の効果]

本発明のつかいすておむつは、股下部分に対して柔軟にフィットして隙間を生じさせることなく確実に漏れを 防止することができると共に腰部における漏れを防止す ることができるものである。

【図面の簡単な説明】第1図は本発明のつかいすておむつの一実施例の表面の一部を破断して示す平面図、第2図は第1図に示すつかいすておむつが表面側に湾曲した状態を示す斜視図、第3図は第2図の|||-|||線断面図、第4図は第2図の|V-|V線断面図、第5図、第6図はそれぞれ本発明のつかいすておむつの他の実施例を示す第3図相当図、第7図は本発明のつかいすておむつの更に他の実施例を示す第3図とは反対側の位置における断

component 7' is more largely set elongation than elastic component 7 of other, the pleated part 6'A, shows in Figure 6, to stand up in comparison with thepleated part 6A of other, in order more largely, configuration it is done. Therefore, according to using throwing away diaper 1 of this working example, destined for inside of absorbent 4, 2 steric gather which inclines beingformed, these crotch part amount of wearer, from groin applying inthe femoral region, compared to fit it does securely.

In addition, As for Figure 7 shows furthermore other Working Example of this invention with the figure which, As for using throwing away diaper 1 of this working example, as though it shows in same Figure, inside of side flap 6 is formed with front surface sheet 2, theoutside leaks and it is something where it can provide another leakresistor 6' in same way as those where we are formed with resistor 6, canprovide elastic component 7 in only inside edge edge of said leak resistor 6, furthermore on surface of said leak resistor 6, we show in the Figure 6. Therefore, according to this working example, destined for inside of the absorbent 4, 2 steric gather which inclines being formed, period is possible theacting effect which is similar to Working Example of 3rd.

Furthermore you explained only concerning those wher e respectiveabsorbent 4 displays rectangle regarding using throwing away diaper 1 of the above-mentioned each Working Example, if, but these absorbent 4, notched part 5A of the respective side flap 5, 5, following to 5A, are something which itcurved was formed, it raises further fit, it is possible densely.

In addition, with respective backing sheet 3, or sheath it does both endsof long direction of respective absorbent 4 with another antileak sheet in usingthrowing away diaper 1 of above-mentioned each Working Example, it can preventfrom a leak in waist part furthermore by providing elastic component in thewaist part, in effective.

## (Effect of Invention)

As for using throwing away diaper of this invention, fit doing inthe softening vis-a-vis crotch part amount, as it can prevent a leak securely, without causing gap it is something which can prevent a leak inthe waist part.

[Brief Explanation of the Drawing(s)] As for Figure 1 br eaking portion of surface of one Working Example of theusing throwing away diaper of this invention, it shows top view, Figure 2 shows state where using throwing away diaper which isshown in Figure 1 curves in front side oblique view, As for Figure 3 line III-III sectional view of Figure 2, as for Figure 4 line IV-IV sectional view of the Figure 2, as for Figure 5 and

面図である。

1:つかいすておむつ

2:表面シート、3:裏面シート

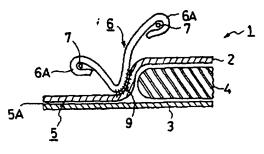
4:吸収体、5:サイドフラップ

6、6′;漏れ抵抗部村

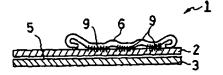
6A、6′A: 襞部

7、7′; 彈性部材

【第3図】



【第4図】



【第1図】

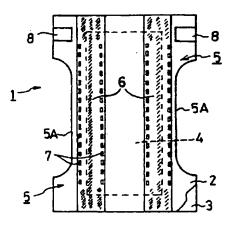


Figure 6 as for Figure 3 corresponding diagram and the Figure 7 which show other Working Example of using throwing away diaper of the respective this invention Figure 3 which shows furthermore other Working Exampleof using throwing away diaper of this invention it is a sectional view in the location of opposing side.

1; using throwing away diaper

2; front surface sheet and 3; backing sheet

4; absorbent and 5; side flap

6, 6; a leak resistor

6A and 6'A; pleated part

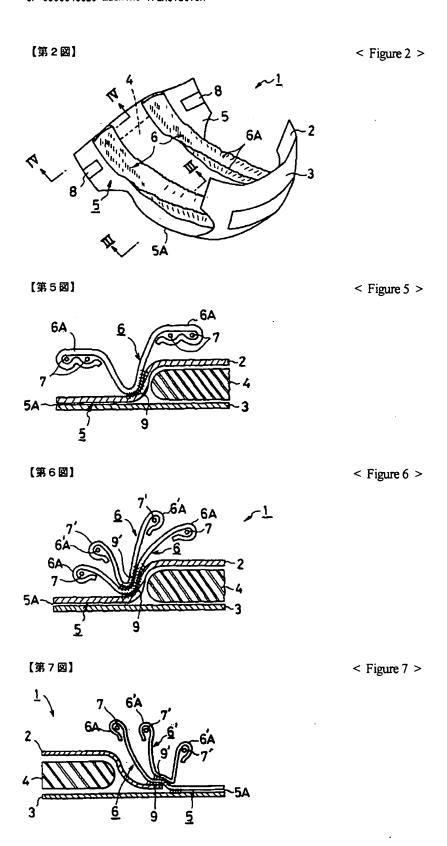
7 and 7'; elastic component

< Figure 3 >

< Figure 4 >

< Figure 1 >

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